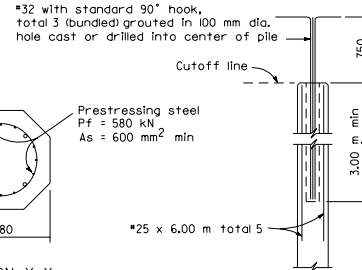
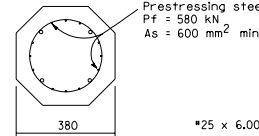
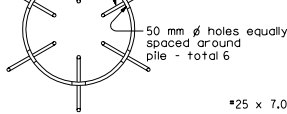
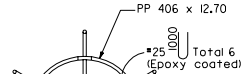
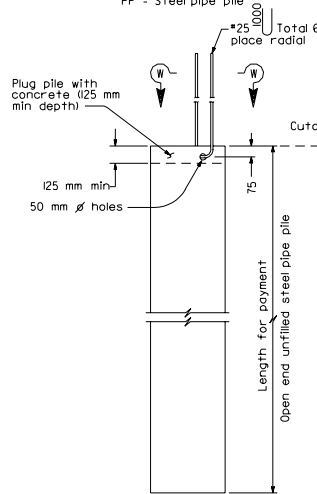




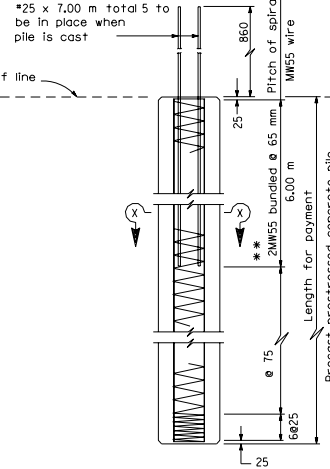
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET TOTAL NO.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER July 1, 1999 PLANS APPROVAL DATE The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					
PROFESSIONAL SEAL T. P. J. JENSEN No. C17596 Exp. 6-30-01 CIVIL STATE OF CALIFORNIA					



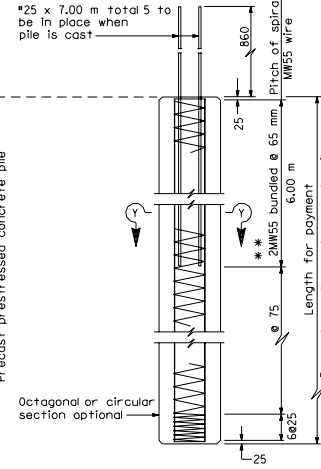
ALTERNATIVE PILE ANCHOR FOR PRESTRESSED PILE



ALTERNATIVE "W"



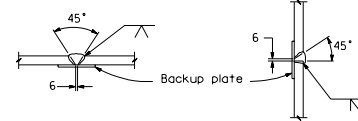
ALTERNATIVE "X"



ALTERNATIVE "Y"

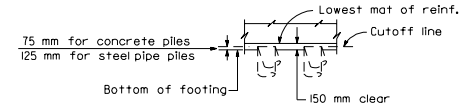
NOTES:

- Concrete in Class 900C Piles shall contain not less than 450 kilograms of cement per cubic meter.
- Pile reinforcement extending into footing shall be hooked as required to provide clearance to top of footing.
- Lapped splices in spiral pile reinforcement shall be lapped 80 wire diameters minimum. Spiral pile reinforcement at splices and at ends shall be terminated by a 135° hook with 150 mm tail hooked around a longitudinal bar or strand.
- At the Contractor's option, alternative steel pipe with at least the diameter and wall thickness shown on these plans may be used. The diameter shall not exceed 460 mm.
- Alternative "W" piles shall not be used for CLASS 900C pile.
- Maximum cut-off length at the top of the Alternative "X" and Alternative "Y" piles is three (3) meters.



SINGLE VEE-GROOVE PILE WELDING DETAIL - BUTT JOINTS

- Notes: 1. Single Vee-Groove permitted for all positions  
2. Single Bevel-Groove permitted for horizontal joints only



PILE EMBEDMENT

DESIGN NOTES

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)  
DESIGN CAPACITY :  
Compression = 900 kilonewtons (Service state)  
= 1800 kilonewtons (Nominal axial resistance)  
Tension = 900 kilonewtons (Nominal axial resistance)

REINFORCED CONCRETE

$f'_c = 28$  MPa  
 $f_y = 420$  MPa

PRECAST PRESTRESSED PILES

$P_f$  = Prestress Force (After losses)  
Concrete Strength  $f'_c @ 28$  days = 48 MPa  
 $f_{ci}$  @ transfer = 28 MPa

STEEL PIPE PILE

$F_y$  (minimum yield strength) = 240 MPa  
 $F_u$  (minimum tensile strength) = 400 MPa

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

PILE DETAILS  
CLASS 900 AND CLASS 900C

NO SCALE  
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN